



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-01/240g/CEMENT/2016-17

Date: 11.01.2017

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of Work	:	Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	:	Cement
Sample Received on	:	07.01.2017
Period of Testing	:	07.01.2017 to 11.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-01/240g/SAND-Gradation/2016-17

11.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of Work	: Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 07.01.2017
Date of Testing	: 11.01.2017

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.60	90-100	90-100	90-100	95-100
2.36	74.80	60-95	75-100	85-100	95-100
1.18	54.50	30-70	55-90	75-100	90-100
600 Micron	27.10	15-34	35-59	60-79	80-100
300 Micron	11.30	5-20	8-30	12-40	15-50
150 Micron	2.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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11.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of Work	: Construction of roads and drains at AD Colony Main and Cross Roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/ /2016-17 Dated: 07.01.2017
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 07.01.2017
Date of Testing	: 11.01.2017

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.00	95-100	85-100
20	35.70	30-70	0-20
10	12.60	10-35	0-5
4.75	3.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No: CTCE/BBMP/KRIDL/W.No.02/Steel/2016-17

11.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Samples ID	: 10 mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 11.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	510	512	13.35	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-01/240g/Cube/2016-17

14.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	: CC Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 14.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2017	14.02.2017	8.152	494.3	21.97
2	17.01.2017	14.02.2017	8.263	502.5	22.33
3	17.01.2017	14.02.2017	8.374	518.7	23.05

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14.02.2017

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* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	: CC Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 14.02.2017

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2017	14.02.2017	8.364	485.2	21.56
2	17.01.2017	14.02.2017	8.575	516.3	22.95
3	17.01.2017	14.02.2017	8.469	502.7	22.34

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14.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	: CC Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 14.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2017	14.02.2017	8.374	523.6	23.27
2	17.01.2017	14.02.2017	8.156	500.4	22.24
3	17.01.2017	14.02.2017	8.293	517.8	23.01

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* Reference	: BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	: CC Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 14.02.2017

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2017	14.02.2017	8.297	498.6	22.16
2	17.01.2017	14.02.2017	8.363	516.3	22.95
3	17.01.2017	14.02.2017	8.475	521.4	23.17

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17.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	: Covering Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₁₅
Compressive Strength as on	: 28 th day
Sample Received on	: 17.02.2017

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.01.2017	17.02.2017	8.263	365.2	16.23
2	20.01.2017	17.02.2017	8.184	351.6	15.63
3	20.01.2017	17.02.2017	8.362	377.2	16.76

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20.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC road and CC drain at J.P. Colony main and cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNKD)/W.O/108/2016-17 Dated: 07.01.2017
* Sample ID	: Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 20.02.2017

SL.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2017	20.02.2017	8.265	502.4	22.33
2	23.01.2017	20.02.2017	8.374	517.5	23.00
3	23.01.2017	20.02.2017	8.456	526.3	23.39

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